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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/539,306	09/25/2006	John Michael Clarkson	37369-9	2678
	7590 02/06/200 berg & Knupp, LLP	EXAMINER		
11377 West Oly	ympic Boulevard	RAMDHANIE, BOBBY		
Los Angeles, C.	A 90064		ART UNIT	PAPER NUMBER
			1797	
			MAIL DATE	DELIVERY MODE
			02/06/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Applicati	on No.	Applicant(s)				
		10/539,3	06	CLARKSON ET AL.				
		Examine	•	Art Unit				
		BOBBY R	AMDHANIE	1797				
Period fo	The MAILING DATE of this communication or Reply	appears on the	e cover sheet with the c	orrespondence a	ddress			
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR RECHEVER IS LONGER, FROM THE MAILING asions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory per to reply within the set or extended period for reply will, by state to reply with the set or extended period for reply will, by state to reply extended by the Office later than three months after the material part of the provided patent term adjustment. See 37 CFR 1.704(b).	EDATE OF THE R 1.136(a). In no ever riod will apply and we atute, cause the app	HIS COMMUNICATION ent, however, may a reply be tin ill expire SIX (6) MONTHS from lication to become ABANDONE	N. nely filed the mailing date of this of U.S.C. § 133).				
Status								
1) 又	Responsive to communication(s) filed on 23	3 October 200	R					
•		his action is r						
	<i>'—</i>			secution as to th	e merits is			
٥/١	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims	,	,					
· ·		. in the emplies	4:					
,	Claim(s) 14,24,25 and 28-30 is/are pending in the application.							
	4a) Of the above claim(s) is/are without	arawn irom co	nsideration.					
	5) Claim(s) is/are allowed.							
· ·	Claim(s) <u>14,24,25 and 28-30</u> is/are rejected	1.						
•	Claim(s) is/are objected to.							
8)[_]	Claim(s) are subject to restriction an	d/or election r	equirement.					
Applicati	on Papers							
9)	The specification is objected to by the Exam	niner.						
10)🛛	10)⊠ The drawing(s) filed on <u>23 October 2008</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the corr	rection is requir	ed if the drawing(s) is ob	ected to. See 37 C	FR 1.121(d).			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	ınder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) Notice (3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate				

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 14, 24, 25, 28, 29, & 30 have been considered but are moot in view of the new ground(s) of rejection. The new rejections are necessitated by Applicants' amendments to the claims.

Response to Amendment

Drawings

2. The drawings were received on 10/23/2008. These drawings are acceptable.

Specification

3. The abstract of the disclosure is objected to because Applicants have disclosed in the Specification that the copolymer blend of ethylene and norbornene is made from Trademark name products – these trademark name products change over time. Percentages or ranges of the components for the copolymers are required for one of ordinary skill to practice the invention. Correction is required. See MPEP § 608.01(b).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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5. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 6. Claims 14, 24, & 25, are rejected under 35 U.S.C. 103(a) as being unpatentable over Korf et al (US5167929).
- 7. Applicants' claims are toward a device.
- 8. Regarding Claims 14, 24, & 25, Korf et al discloses the molded plastics material sample vessel comprising A). A tubular portion which has a maximum external cross sectional width (See Figure 1); B). An internal sample volume of not more than 100 microliters (100 μ L) (See Figure 1, note 100 μ L); wherein C). The tubular portion comprises a tubular external wall with a and wherein the tubular portion: has a truncated conical external surface, the angle between a meridian of the truncated conical external surface and the axis of the cone being in the range of from 0 to 90 degrees, is closed at its narrower end, and is open at its wider end (See Figure 1).
- 9. Korf et al does not explicitly disclose that the maximum external cross sectional width is 5mm, that the tubular external wall thickness ranges from 0.01 to 2 mm, or that the angle between a meridian of the truncated conical external surface and the axis of the cone being in the range of 0.2 to 8 degrees. It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify these dimensions to

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be within the ranges recited since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. *In re Aller*, 105 USPQ 233.

Additional Disclosures Included: <u>Claim 24</u>: The molded plastics material sample vessel according to claim 14, further comprising a section of frustoconical shape directly or indirectly adjoining the tubular portion, which section increases in external diameter in the direction away from the tubular portion (See Figure 1); and <u>Claim 25</u>: The molded plastics material sample vessel as claimed in claim 14 further comprising a neck portion that includes a cylindrical portion for receiving a closure means (See Figure 1).

- 10. Claims 28 & 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Korf et al of in view of Miyamoto et al (US6331591).
- 11. Applicants' claims are toward a device.
- 12. Regarding Claims 28 & 29, Korf et al discloses the molded plastics material sample vessel which comprises A). A tubular portion having an external cross sectional width (See Figure 1); B). An internal sample volume of not more than 100 microliters (See Figure 1), wherein the tubular portion comprises a tubular external wall with a thickness (See Figure 1) and wherein the tubular portion: 1). Has a truncated conical external surface, the angle between a meridian of the truncated conical external surface and the axis of the cone being in the range of from 0-90 degrees (See Figure 1), 2). Is closed at its narrower end (See Figure 1); 3). Is open at its wider end (See Figure 1), wherein C). Having a mean internal cross sectional width of the cavity of the tubular

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portion (See Figure 1); and D). The sample tube further comprises a section of frustoconical shape directly or indirectly adjoining the tubular portion, which section increases in external and internal diameter in the direction away from the tubular portion (See Figure 1).

- 13. Korf et al does not disclose the range limitations of the above limitations, or that the sample vessel is made of a cyclo-olefin copolymer of ethylene and norbomene. Miyamoto et al discloses cycloolefin copolymer blends that comprise ethylene and norbornene (See Column 3 line 63 to Column 4 line 8). Miyamoto et al also discloses that these copolymer compositions have industrial applications for containers, bottles, cups, and packaging films (See Column 15 lines 62-67). It would have been obvious to one of ordinary skill in the art at the time the invention to modify the sample vessel of Korf et al with the copolymer compositions of Miyamoto et al because according to Miyamoto et al, these copolymers result in excellent impact resistance, which would be important for Korf et al because the reaction vessels would essentially be required to be durable and withstand temperatures exceeding 50°C (See Korf et al; Abstract); It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify these dimensions to be within the ranges recited since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. In re Aller, 105 USPQ 233.
- 14. For Claim 29, the combination of Korf et al and Miyamoto et al disclose the molded plastics material sample vessel as claimed in claim 28, except wherein the

angle between the meridian of the truncated conical external surface and the axis of the cone being in the range of from 1 degree to 3 degrees. Korf et al does however disclose that the angle between the meridian of the truncated conical external surface and the axis of the cone being in the range of from 0-90 degrees. It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify these dimensions to be within the ranges recited since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. *In re Aller*, 105 USPQ 233.

- 15. Claim 30 is rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Korf et al and Miyamoto et al, and in further view of Tice et al (US6432665).
- 16. Applicants' claims are toward a device.
- 17. Regarding Claim 30, the combination of Korf et al and Miyamoto et al discloses the molded plastics material sample vessel as claimed in claim 28, wherein the cycloolefin copolymer of ethylene and norbomene (See Rejection to Claim 28 above). The combination does not disclose that the copolymer blend has a melt flow index of at least 20. Miyamoto et al does however disclose that the copolymer blends may be made from the blends sold under the trademark name of Topas. Tice et al discloses reaction vessels which may be made under the trademark name Topas which explicitly discloses Topas-6015, 8007, 5013, and 6017 (note: Applicants have disclosed that Topas 5013 was used in the method of making the device which has the melt flow index property of at least 20). It would have been obvious to one of ordinary skill in the art at the time the

invention was made to modify the combination of Korf et al and Miyamoto et al with the Topas copolymer line because according to Miyamoto et al, preferable COCs are copolymers of a cyclic olefin having a norbornene based structure, preferably norbornene, tetracyclododecene or cyclic olefins having a structure derived from them, and a non-cyclic olefin having a terminal double bond, e.g., an .alpha.-olefin, preferably ethylene or propylene. Among them, norbornene-ethylene, norbornene-propylene, tetracyclo-dodecene-ethylene and tetracyclododecene-propylene copolymers are particularly preferred (See Column 4 lines 1-9).

Telephonic Inquiries

18. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the

examiner should be directed to BOBBY RAMDHANIE whose telephone number is

(571)270-3240. The examiner can normally be reached on Mon-Fri 8-5 (Alt Fri off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Walter Griffin can be reached on 571-272-1447. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

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/B. R./

/Walter D. Griffin/

Supervisory Patent Examiner, Art Unit 1797